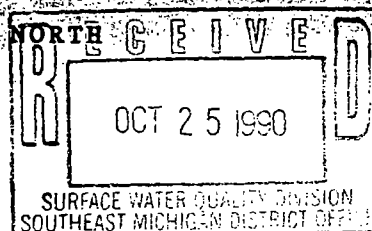


STAFF REPORT

ACUTE TOXICITY ASSESSMENT OF ATOCHEM NORTH
AMERICA, INC. 001 EFFLUENT

WYANDOTTE, MICHIGAN
OCTOBER 2-4, 1990
NPDES PERMIT NO. MI0002381



As part of a routine biomonitoring inspection, staff of the Great Lakes and Environmental Assessment Section (GLEAS) performed a static acute Daphnia magna toxicity test on a composite sample of tochem North America, Inc. 001 effluent. The sample was collected from October 1-2 by Atochem staff. The facility was operating normally when the sample was collected. Toxicity testing was performed according to GLEAS Procedure # 24. The test was conducted to assess the acute toxicity of the effluent.

The facility is authorized to discharge 14.72 mgd of process effluent from outfall 001 to the Detroit River. The instream waste concentration of the effluent is 0.07% effluent.

SUMMARY

1. Toxicological and physical/chemical data generated during the study are presented in Tables 1 and 2, respectively.
2. The effluent was not acutely toxic to Daphnia magna. The results of this test suggest that the effluent was meeting the aquatic toxicity-related requirements of Rules 57 and 82 of the Michigan Water Quality Standards.

Test and

report by: William F. Dimond, Aquatic Biologist
Great Lakes and Environmental Assessment Section
Water Quality Appraisal Unit

US EPA RECORDS CENTER REGION 5



406674